



Pharma Containment Isolators PCI

Personnel protection at the highest level

EHRET Containment Isolators PCI

offer the highest safety standards for handling toxic APIs and HPAPIs (Highly Potent Pharmaceutical Ingredients) during the processing of powdered substances, with a dedicated focus on personnel and environmental protection.

Operator protection, product integrity, and environmental safety are the core requirements for every project and all systems.

Dosing, dispensing, grinding, filling, and reactor charging are examples of the operations performed within these isolators.

Each isolator is a custom-engineered solution, designed to incorporate client-specific processes and requirements to implement an effective containment strategy.



Key Features

- ▶ Negative pressure operation (approx. -100 Pa) with turbulent airflow and at least 20 ACH
- ▶ Rounded internal corners for easy and effective cleaning.
- ▶ Fully manufactured from 316L stainless steel (WST 1.4404).
- ▶ Personnel protection for processing products/APIs up to OEL 6.
- ▶ Optional WIP (Wash-In-Place) system, featuring a spray gun and spray nozzles for effortless chamber cleaning.
- ▶ Push-Push filter systems for contamination-free filter replacement.
- ▶ Various material handling, transfer systems, and docking ports available.
- ▶ Housing protection class up to IP 68 within the workspace.
- ▶ Safety standards and precision in accordance with DIN EN ISO / VDE.
- ▶ Certified and documented quality.
- ▶ Custom-made design – tailored specifically to individual user requirements.



General technical data, features and options

Cleanroom class within workspace	ISO 14644-1 Class 7 or better
Leak tightness class	ISO 10648-2 Class 3, max. 1 vol. %/h
Controlled differential pressure to room	-50 Pa to -150 Pa (relative to ambient)
Air change rate Normal operation / Purge mode	> 20 ACH (Normal) / > 100 ACH (Purge)
HEPA filters - Inlet and Exhaust	H14
Glass panes	Laminated Safety Glass (2x 8 mm TSG/ESG)
Seals	Static / Inflatable
Inflow velocity in Glove off condition	> 0.5 m/s
Glove ports	Round / Oval
Airflow	Turbulent (Negative pressure)
Noise level dB(A)	< 60
Push-Push filter system	☒
WIP system	☐
Transfer systems – DPTE ports	☐
Internal airlock doors (manual swing doors)	☒
Manual transfer systems	☒
Chamber lighting RGB LED > 800 Lux	☒
Siemens S7/1500 Control System incl. 12" HMI	☐
SMEPAC Test (during FAT at EHRET)	☐
Mock-up study - at EHRET or on-site	☐ / ☐
ICH Q9 Risk Analysis & GMP Qualification IQ/OQ	☐

100 Jahre excellence in the development, manufacturing, distribution, and qualification of equipment and systems for laboratory, pharmaceutical, and cleanroom technology



☒ Standard | ☐ Option | - not available

 MADE IN GERMANY